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IDEA-0168-67 Copy 1 of 1 31 January 1967

MEMORANDUM FOR: Deputy for Operations, OSA

SUBJECT : IDEALIST Life Support Equipment

References: (1) IDEA-0156-67 dated 20 January 1967

(2) IDEA-0030-67 dated 16 January 1967

1. In accordance with reference 1, the following responses to reference 2 are submitted:

a. Modification of survival kit rucksacks with	
CO2 and oral inflation systems, and adjustable carrying	
straps. An inflatable rucksack was included in LAC	
MCP-266 dated 17 August 1966. Because of high cost and	
long lead time for prototype development, this ECP was	
not approved in its entirety (Ref: IDEA-3246-66 dated	
8 September 1966, IDEA 3351-66 dated 26 September 1966,	25X1A
	25X1A
MCP and the decisions regarding it were discussed with	
both (OIC and NCOIC,	
Life Support Section). During a meeting with	
on 23-24 January 1967, he again reemph asized	
that most of the changes outlined in ECP-266 (other	25X1A
than QD changes) should not be pursued due to the long	
lead times, since the U-2R will have such provisions in	
the seat kit. In light of these comments by	
Life Support personnel, there seems to be a misunder-	25X1A
standing on the part of since he refers to	25×1余
"discussions" and "unknown reasons" neither of which	
are verified by Life Support. However, if	
Life Support does desire inflatable rucksacks with	
adjustable carrying straps for the present U-2 seat	
kit they need only to identify the item required and	
request this office to take action.	
ACTION: Will be deferred until Life Support	25X1A
pursues these requirements.	

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IDEA-0168-67

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b. Provision of Let-Down ropes for tree landings	
It is my understanding, from discussions with	
and (INTEL/O/OSA)	25X1A
that such an item was installed on the drivers lower	
leg in the past but was removed because of possible	
interference during ejection. However	25X1A
has been actively investigating the availability and	
sultability of new let-down devices. This survivel	
liem, once identified and evaluated by the responsible	
civision (INTEL Div) can be evaluated with respect	
to its compatibility with Life Support equipment.	
Apparently, was unaware of several discussions	5
have had with on this subject.	
ACTION: Awaiting action by INTEL Division.	
c. Modification of Survival kit lanyards for	
manual or automatic inflation. I presume this refers	
to life ruit inflation. If so, this modification was	
never proposed for the IDEALIST program at any time in	
the past. It was discussed for the OXCART program and	
is therefore a misplaced item in reference #2. However,	2EV4A
ECCOroling to my records the requirement for such a	
device in OXCART was dropped following a meeting between	· >=>/
my predecessor,	25X1A
(Chief, INTEL Div at that time) in January 1966.	
ACT ON: No action planned unless requested by	
Life Support.	
d. Installation of adjustable automatic deployment,	
devices for use in flights over areas of very high	25X1A
verrain. It is apparent that this item was not discusse	. 4
with Life Support Personnel or even with	Ï
since the F-1B Automatic Parachute Release used in the	
U-2 personnel parachute has an aneroid block mechanism	
which is adjustable from 5,000 to 20,000 feet above sea	
level. As nointed out in previous discussions between	
adjustment of this setting to	
aititudes above the standard setting of 14,000 feet	
will have to receive careful consideration as to the	
severe effects of increased parachute opening shock	
versus the risk factor (ie, time flown over high alti-	
trade terrain with elevations of 14,000 feet or more).	
ACTION: No action planned unless discussions with	
are generated regarding policy on F-1B timer	
settings.	

SECRET 2

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IDEA-0168-67

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e. Modification of the canopies with deflavion
pockets. This item was discussed with
who is in the water survival section of the Aircrew
Who is in the water sarvival section of the hiteron
laboratories at Wright-Patterson AFB, Ohio on 9 Depu.
1986. This modification, which has apparently been
approved by the U.S. Navy has not received USAF approval
because the modification apparently lengthens the time
required for parachute deployment. The present escape
system in the U-2 does not offer low altitude capability
and any modification which reduces the minimum altitude
capability any further is not an acceptable trade-off.
ACTION: More specific information will be researched
on this item with regards to future use on the U-2R
escape system.

Walk-around sleeping bags in seat cushions. After discussions of this item in 1965, a prototype 25X1A Evaluain early 1966. was developed by revealed that the cushion was too thick tion at and caused the pilots head to be elevated above the headrest. In addition to the head hitting the canopy during flight, this arrangement would preclude throughthe-canopy ejection. Since thinner packaging was not obtainable this item was no longer considered. information was obtained from and can be verified by Life Support personnel. If there is a valid requirement for a walkaround sleeping bag in the future, investigation of a cushion packed item for use in the U-2R will be undertaken.

g. "Four line cut" or related action to make 35-foot canopy steerable and reduce oscillation. This item is also misplaced in reference #2 since the present IDEALIST personnel parachute does not 25X1A have a 35-foot canopy. The 4-line cut is being taught for the 28-foot canopy being used. Again, it is apparent that this item was not discussed with personnel as stated in reference #2, and since it does not apply to the IDEALIST program it obviously has not been placed in a "hold-status". For the record, I did discuss this procedure for OXCART application with at Wright-Patterson AFB, Chio on 9 september 1900, and discussed his expert views with **s**tated shortly thereafter. 25X1A that a 4-line cut for the 35 foot canopy would not damage the chute and would be sage to test. However,

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Approved For Releas 2002/06/13 : GIA-RDR 68B00724R000200230032-0

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he further stated this procedure would probably make little difference in stability since the 35 foot chute is already stable, due to its shaped canopy (as opposed to the flat canopy of the 28 foot chute). Because the 35 foot canopy has more lines, a 4-line cut would probably not give a vent that would provide increased steerability.

ACTION: Will make further inquiries in the future with reference to the U-2R escape system which will use a 35 foot canopy. However, the possible benefits seem to be minimal.

h. Procurement of 35-foot canopies for the parasail. This item has never been investigated by this office in the past nor has it been the subject of any discussions by Life Support personnel with the undersigned. If it has been in a "hold status" or "proceeding at a slow rate" it has been so within INTEL/Div/O/OSA since survival training, including parachute training, is apparently a function of that division. It seems that a clarification is in order regarding the respective responsibilities of INTEL/Div/O/OSA and ASD/R&D/OSA with regards to life support equipment and procedures and with regards to survival equipment, procedures and training.
ACTION: None

2. I would be happy to discuss any of the above items further if any questions remain manswered.

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ASD/R&D/OSA

(31 January 1967)

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